

# **Self-healing Concrete Market by Type (Intrinsic Healing, Capsule based Healing, Vascular Healing) by End User (Residential & Commercial, Industrial, and Civil Infrastructure): Global Opportunity Analysis and Industry Forecast, 2018 - 2025**

<https://marketpublishers.com/r/S533C32994AEN.html>

Date: February 2019

Pages: 150

Price: US\$ 5,370.00 (Single User License)

ID: S533C32994AEN

## **Abstracts**

### **Self-healing Concrete Market**

The global self-healing concrete market was valued at \$216,720.0 thousand in 2017 and is projected to reach \$1,375,088.0 thousand by 2025, growing at a CAGR of 26.4 % from 2018 to 2025. Self-healing concrete is developed by the Hendrik Jonkers of Delft Technical University in the Netherlands and commercialized by Basilisk Concrete in 2015. This technology uses *Bacillus subtilis* group of bacteria to enhance the self-healing property of concrete. Moreover, self-healing concretes are known to provide long life to the infrastructure without the need for human intervention in maintenance and repair.

Self-healing concrete is developed with the aim to reduce maintenance cost while increasing life of civil engineering structures. The concept of self-healing has also been introduced in other material such as metal, polymer asphalt, and fiber enforced composites. Basilisk, based in Netherland, offers three type of products, which include healing agent, self-healing repair mortar MR3, and Liquid Repair system ER7. Currently, these materials are produced in less quantity for the construction market because they are being tested through various projects in different phases in the European market. Another research at Ghent University in Belgium, are embedding the bacteria in microcapsules or microgels, where they are expected to survive for hundreds of years.

The global self-healing concrete market is segmented into type, end users, and region. Based on type, the market is divided into intrinsic healing, capsule based healing, and vascular healing. Based on end user, it is divided into residential and commercial, industrial, and civil infrastructure. Based on region, the market is analyzed across North America, Europe, Asia-Pacific and LAMEA.

The global self-healing concrete market is analyzed across four geographical regions, which include North America (the U.S., Canada and Mexico), Europe (Germany, France, UK, and Rest of Europe), Asia-Pacific (China, Japan, India, South Korea, and rest of Asia-Pacific) and LAMEA (Latin America and rest of LAMEA). Moreover, Europe is expected to hold the highest market share during the forecast period. Based on region, Asia-Pacific is expected to show significant market growth throughout the forecast period.

The key players profiled in this report include Basilisk, Acciona Infraestructuras S.A., Avecom N.V., Comercializadora Espanola De Innovaciones Y Materiales, COWI A/S, Devan-Micropolis, and Fescon. Apart from Basilisk, other companies are profiled as they have participated in the HEALCON project for self-healing concrete.

#### Key Benefits For Self-healing Concrete Market:

The study provides an in-depth analysis of the global self-healing concrete market along with the current & future trends to elucidate the imminent investment pockets.

Information about the key drivers, restraints, and opportunities and their impact analysis on the market is provided.

Porter's five forces analysis illustrates the potency of buyers and suppliers operating in the industry.

The quantitative analysis of the market from 2017 to 2025 is provided to determine the market potential.

#### Self-healing Concrete Key Market Segments:

##### By Type

Intrinsic healing

Capsule based healing

Vascular healing

By End User

Residential and Commercial

Industrial

Civil Infrastructure

By Region

North America

U.S.

Canada

Mexico

Europe

Germany

UK

France

Rest of Europe

Asia-Pacific

China

Japan

India

South Korea

Rest of Asia-Pacific

LAMEA

Latin America

Rest of LAMEA

Key Market Players Profiled In The Report

Basilisk

Acciona Infraestructuras S.A.

Avecom N.V.

Comercializadora Espanola De Innovaciones Y Materiales

COWI A/S

Devan-Micropolis

Fescon

## Contents

### CHAPTER 1: INTRODUCTION

- 1.1. REPORT DESCRIPTION
- 1.2. KEY BENEFITS FOR STAKEHOLDERS
- 1.3. KEY MARKET SEGMENTS
- 1.4. KEY MARKET PLAYERS
- 1.5. RESEARCH METHODOLOGY
  - 1.5.1. Primary research
  - 1.5.2. Secondary research
  - 1.5.3. Analyst tools and models

### CHAPTER 2: EXECUTIVE SUMMARY

- 2.1. CXO PERSPECTIVE

### CHAPTER 3: MARKET OVERVIEW

- 3.1. MARKET DEFINITION AND SCOPE
- 3.2. KEY FINDINGS
  - 3.2.1. Top impacting factors
  - 3.2.2. Top investment pockets
- 3.3. PORTER'S FIVE FORCES ANALYSIS
- 3.4. MARKET DYNAMICS
  - 3.4.1. Drivers
    - 3.4.1.1. Increase in demand for sustainable infrastructure
    - 3.4.1.2. Growing focus to reduce carbon footprint rising due to construction
  - 3.4.2. Restraints
    - 3.4.2.1. Expensive than Conventional Materials
  - 3.4.3. Opportunities
    - 3.4.3.1. Wide Application Base for Reliable and Durable Construction

### CHAPTER 4: SELF-HEALING CONCRETE MARKET, BY TYPE

- 4.1. MARKET OVERVIEW
  - 4.1.1. Market size and forecast, by type
- 4.2. INTRINSIC HEALING
  - 4.2.1. Key market trends, growth factors and opportunities

4.2.2. Market size and forecast, by region

4.2.3. Market size and forecast, by country

#### 4.3. CAPSULE BASED HEALING

4.3.1. Key market trends, growth factors and opportunities

4.3.2. Market size and forecast, by region

4.3.3. Market size and forecast, by country

#### 4.4. VASCULAR HEALING

4.4.1. Key market trends, growth factors and opportunities

4.4.2. Market size and forecast, by region

4.4.3. Market size and forecast, by country

### **CHAPTER 5: SELF-HEALING CONCRETE MARKET, BY END-USER**

#### 5.1. MARKET OVERVIEW

4.1.1. Market size and forecast, by end-user

#### 5.2. RESIDENTIAL AND COMMERCIAL

5.2.1. Key market trends, growth factors and opportunities

5.2.2. Market size and forecast, by region

5.2.3. Market size and forecast, by country

#### 5.3. INDUSTRIAL

5.3.1. Key market trends, growth factors and opportunities

5.3.2. Market size and forecast, by region

5.3.3. Market size and forecast, by country

#### 5.4. CIVIL INFRASTRUCTURE

5.4.1. Key market trends, growth factors and opportunities

5.4.2. Market size and forecast, by region

5.4.3. Market size and forecast, by country

### **CHAPTER 6: SELF-HEALING CONCRETE MARKET, BY REGION**

#### 6.1. MARKET OVERVIEW

6.1.1. Market size and forecast by region

#### 6.2. NORTH AMERICA

6.2.1. Key market trends, growth factors and opportunities

6.2.2 Market size and forecast, by type

6.2.3. Market size and forecast, by end-user

6.2.4. North America market size and forecast, by country

6.2.4.1. U.S.

6.2. 4.1.1. U.S., market size and forecast by type

- 6.2. 4.1.2. U.S., market size and forecast by end-user
  - 6.2.4.2. Canada
    - 6.2.4.2.1. Canada market size and forecast, by type
    - 6.2.4.2.2. Canada, market size and forecast by end-user
  - 6.2.4.3. Mexico
    - 6.2.4.3.1. Mexico market size and forecast, by type
    - 6.2.4.3.2. Mexico market size and forecast by end-user
- 6.3. EUROPE
  - 6.3.1. Key market trends, growth factors and opportunities
  - 6.3.2. Europe market size and forecast, by type
  - 6.3.3. Europe market size and forecast, by end-user
  - 6.3.4. Europe market size and forecast, by country
    - 6.3.4.1. Germany
      - 6.3.4.1.1. Germany market size and forecast, by type
      - 6.3.4.1.2. Germany market size and forecast, by end-user
    - 6.3.4.2. UK
      - 6.3.4.2.1. UK market size and forecast, by type
      - 6.3.4.2.2. UK market size and forecast, by end-user
    - 6.3.4.3. France
      - 6.3.4.3.1. France market size and forecast, by type
      - 6.3.4.3.2. France market size and forecast, by end-user
    - 6.3.4.4. Rest of Europe
      - 6.3.4.4.1. Rest of Europe market size and forecast, by type
      - 6.3.4.4.2. Rest of Europe market size and forecast, by end-user
- 6.4. ASIA-PACIFIC
  - 6.4.1. Key market trends, growth factors and opportunities
    - 6.4.1.1. Asia-Pacific market size and forecast, by type
    - 6.4.1.2. Asia-Pacific market size and forecast, by end-user
  - 6.4.2. Asia-Pacific market size and forecast, by country
    - 6.4.2.1. China
      - 6.4.2.1.1. China market size and forecast, by type
      - 6.4.2.1.2. China market size and forecast, by end-user
    - 6.4.2.2. Japan
      - 6.4.2.2.1. Japan market size and forecast, by type
      - 6.4.2.2.2. Japan market size and forecast, by end-user
    - 6.4.2.3. India
      - 6.4.2.3.1. India market size and forecast, by type
      - 6.4.2.3.2. India market size and forecast, by end-user
    - 6.4.2.4. South Korea

- 6.4.2.4.1. South Korea market size and forecast, by type
- 6.4.2.4.2. South Korea market size and forecast, by end-user
- 6.4.2.5. Rest of Asia-Pacific
  - 6.4.2.5.1. Rest of Asia-Pacific market size and forecast, by type
  - 6.4.2.5.2. Rest of Asia-Pacific market size and forecast, by end-user
- 6.5. LAMEA
  - 6.5.1. Key market trends, growth factors and opportunities
    - 6.5.1.1. LAMEA market size and forecast, by type
    - 6.5.1.2 LAMEA market size and forecast, by end-user
  - 6.5.2. LAMEA market size and forecast, by country
    - 6.5.2.1. Latin America
      - 6.5.2.1.1. Latin America market size and forecast, by type
      - 6.5.2.1.2. Latin America market size and forecast, by end-user
    - 6.5.2.2. Rest of LAMEA
      - 6.5.2.2.1. Rest of LAMEA market size and forecast, by type
      - 6.5.2.2.2. Rest of LAMEA market size and forecast, by end-user

## **CHAPTER 7: COMPANY PROFILES**

- 7.1. GREEN-BASILISK BV
  - 7.1.1. Company overview
  - 7.1.2. Company snapshot
  - 7.1.3. Product portfolio
  - 7.1.4. Key strategic moves and developments
- 7.2. ACCIONA, S.A.
  - 7.2.1. Company overview
  - 7.2.2. Company snapshot
  - 7.2.3. Operating business segments
  - 7.2.4. Business performance
  - 7.2.5. Key strategic moves and developments
- 7.3. AVECOM NV
  - 7.3.1. Company overview
  - 7.3.2. Company snapshot
  - 7.3.3. Operating business segments
- 7.4. COMERCIALIZADORA ESPANOLA DE INNOVACIONES Y MATERIALES, ES
  - 7.4.1. Company overview
  - 7.4.2. Company snapshot
  - 7.4.3. Operating business segments
- 7.5. COWI HOLDING A/S

- 7.5.1. Company overview
- 7.5.2. Company snapshot
- 7.5.3. Operating business segments
- 7.5.4. Business performance
- 7.6. DEVAN - MICROPOLIS, S.A.
  - 7.6.1. Company overview
  - 7.6.2. Company snapshot
  - 7.6.3. Operating business segments
- 7.7. FESCON LTD
  - 7.7.1. Company overview
  - 7.7.2. Company snapshot



## List Of Tables

### LIST OF TABLES

Table 01. GLOBAL SELF-HEALING CONCRETE MARKET REVENUE, by Type, 2017-2025 (\$THOUSAND)

Table 02. GLOBAL SELF-HEALING CONCRETE MARKET REVENUE, by End-user, 2017-2025 (\$THOUSAND)

Table 03. self-healing concrete MARKET REVENUE, FOR residential and commercial segment, by region, 2017-2025 (\$THOUSAND)

Table 04. self-healing concrete MARKET REVENUE, FOR industrial segment, by region, 2017-2025 (\$THOUSAND)

Table 05. self-healing concrete MARKET REVENUE, FOR civil infrastructure, by region, 2017-2025 (\$THOUSAND)

Table 06. global SELF-HEALING CONCRETE MARKET, BY REGION, 20172025 (\$THOUSAND)

Table 07. North America self-healing concrete market, by type, 20172025 (\$Thousand)

Table 08. North America self-healing concrete market, by end-user, 20172025 (\$Thousand)

Table 09. North america SELF-HEALING CONCRETE MARKET, BY COUNTRY, 20172025 (\$THOUSAND)

Table 10. U.S. self-healing concrete market, by type, 20172025 (\$Thousand)

Table 11. U.S.self-healing concrete market, by end-user, 20172025 (\$Thousand)

Table 12. Canada self-healing concrete market, by type, 20172025 (\$Thousand)

Table 13. Canada self-healing concrete market, by end-user, 20172025 (\$Thousand)

Table 14. Mexico self-healing concrete market, by type, 20172025 (\$Thousand)

Table 15. Mexico self-healing concrete market, by end-user, 20172025 (\$Thousand)

Table 16. Europe self-healing concrete market, by type, 20172025 (\$Thousand)

Table 17. Europe self-healing concrete market, by end-user, 20172025 (\$Thousand)

Table 18. EUROPE SELF-HEALING CONCRETE MARKET, BY COUNTRY, 20172025 (\$THOUSAND)

Table 19. Germany self-healing concrete market, by type, 20172025 (\$Thousand)

Table 20. Germany self-healing concrete market, by end-user, 20172025 (\$Thousand)

Table 21. UK self-healing concrete market, by type, 20172025 (\$Thousand)

Table 22. UK self-healing concrete market, by end-user, 20172025 (\$Thousand)

Table 23. France self-healing concrete market, by type, 20172025 (\$Thousand)

Table 24. France self-healing concrete market, by end-user, 20172025 (\$Thousand)

Table 25. Rest of Europe self-healing concrete market, by type, 20172025 (\$Thousand)

Table 26. Rest of Europe self-healing concrete market, by end-user, 20172025

(\$Thousand)

Table 27. Asia-pacific self-healing concrete market, by type, 20172025 (\$Thousand)

Table 28. Asia-pacific self-healing concrete market, by end-user, 20172025

(\$Thousand)

Table 29. ASIA-PACIFIC SELF-HEALING CONCRETE MARKET, BY COUNTRY, 20172025 (\$Thousand)

Table 30 China self-healing concrete market, by type, 20172025 (\$Thousand)

Table 31. China self-healing concrete market, by end-user, 20172025 (\$Thousand)

Table 32. Japan self-healing concrete market, by type, 20172025 (\$Thousand)

Table 33. Japan self-healing concrete market, by end-user, 20172025 (\$Thousand)

Table 34 India self-healing concrete market, by type, 20172025 (\$Thousand)

Table 35 India self-healing concrete market, by end-user, 20172025 (\$Thousand)

Table 36. South Korea self-healing concrete market, by type, 20172025 (\$Thousand)

Table 37. South Korea self-healing concrete market, by end-user, 20172025

(\$Thousand)

Table 38. Rest of Asia-Pacific self-healing concrete market, by type, 20172025

(\$Thousand)

Table 39. Rest of Asia-Pacific self-healing concrete market, by end-user, 20172025

(\$Thousand)

Table 40 LAMEA self-healing concrete market, by type, 20172025 (\$Thousand)

Table 41. LAMEA self-healing concrete market, by end-user, 20172025 (\$Thousand)

Table 42 LAMEA SELF-HEALING CONCRETE MARKET, BY COUNTRY, 20172025

(\$Thousand)

Table 43. Latin America self-healing concrete market, by type, 20172025 (\$Thousand)

Table 44 Latin America self-healing concrete market, by end-user, 20172025

(\$Thousand)

Table 45 Rest of LAMEA self-healing concrete market, by type, 20172025 (\$Thousand)

Table 46. Rest of LAMEA self-healing concrete market, by end-user, 20172025

(\$Thousand)

Table 47 Green-Basilisk BV: company Snapshot

Table 48. Green-Basilisk BV: PRODUCT portfolio

Table 49. Acciona, S.A.: company Snapshot

Table 50 Acciona, S.A.: Operating segments

Table 51 Avecom NV: company Snapshot

Table 52 Avecom NV: product categories

Table 53 Comercializadora Espanola De Innovaciones Y Materiales, ES: company Snapshot

Table 54 Comercializadora Espanola De Innovaciones Y Materiales, ES: product categories

Table 55. COWI Holding A/S: company Snapshot

Table 56 COWI Holding A/S: Operating segments

Table 57 Devan - Micropolis, S.A.: company Snapshot

Table 58 Devan - Micropolis, S.A.: Product categories

Table 59 Fescon Ltd: company Snapshot

## List Of Figures

### LIST OF FIGURES

- Figure 01. global self-healing concrete market, 2017-2025
- Figure 02. global self-healing concrete market, by country, 2017-2025
- Figure 03. global self-healing concrete market: Key players
- Figure 04. TOP IMPACTING FACTORS
- Figure 05. Top investment pockets
- Figure 06. MODERATE-to-high Bargaining power of Suppliers
- Figure 07. MODERATE-to-high bargaining power of Buyers
- Figure 08. LOW-TO-MODERATE Threat of substitutes
- Figure 09. low-to-moderate threat of new entrants
- Figure 10. moderate competitive RIVALRY
- Figure 11. Drivers, restraints: Global self-healing concrete market
- Figure 12. global self-healing concrete market Revenue, for intrinsic healing, by country, 20172025 (\$THOUSAND)
- Figure 13. global self-healing concrete market Revenue, for capsule based healing, by country, 20172025 (\$THOUSAND)
- Figure 14. global self-healing concrete market Revenue, for vascular based healing, by country, 20172025 (\$THOUSAND)
- Figure 15. global self-healing concrete market Revenue, for residential and commercial drilling rig, by country, 20172025 (\$THOUSAND)
- Figure 16. global self-healing concrete market Revenue, for industrial, by country, 20172025 (\$THOUSAND)
- Figure 17. global self-healing concrete market Revenue, for civil infrastructure, by country, 20172025 (\$THOUSAND)
- Figure 18. Global self-healing concrete market, BY REGION SNAPSHOT
- Figure 19. U.S. self-healing concrete market, 2017-2025 (\$Thousand)
- Figure 20. canada self-healing concrete market, 2017-2025 (\$Thousand)
- Figure 21. Mexico self-healing concrete market, 2017-2025 (\$Thousand)
- Figure 22. Germany self-healing concrete market, 2017-2025 (\$Thousand)
- Figure 23. UK self-healing concrete market, 2017-2025 (\$Thousand)
- Figure 24. France self-healing concrete market, 2017-2025 (\$Thousand)
- Figure 25. Rest of europe self-healing concrete market, 2017-2025 (\$Thousand)
- Figure 26. China self-healing concrete market, 2017-2025 (\$Thousand)
- Figure 27. Japan self-healing concrete market, 2017-2025 (\$Thousand)
- Figure 28. India self-healing concrete market, 2017-2025 (\$Thousand)
- Figure 29. South Korea self-healing concrete market, 2017-2025 (\$Thousand)

Figure 30. Rest of asia-pacific self-healing concrete market, 2017-2025 (\$Thousand)

Figure 31. Latin America self-healing concrete market, 2017-2025 (\$Thousand)

Figure 32. Rest of LAMEA self-healing concrete market, 2017-2025 (\$Thousand)

Figure 33. Acciona, S.A.: Revenue, 2015-2017 (\$THOUSAND)

Figure 34. Acciona, S.A.: Revenue share by segment, 2017 (%)

Figure 35. Acciona, S.A.: Revenue share by geography, 2017 (%)

Figure 36. COWI Holding A/S: Revenue, 2015-2017 (\$THOUSAND)

Figure 37. COWI Holding A/S: Revenue share by segment, 2017 (%)

Figure 38. COWI Holding A/S: Revenue share by geography, 2017 (%)

## I would like to order

Product name: Self-healing Concrete Market by Type (Intrinsic Healing, Capsule based Healing, Vascular Healing) by End User (Residential & Commercial, Industrial, and Civil Infrastructure): Global Opportunity Analysis and Industry Forecast, 2018 - 2025

Product link: <https://marketpublishers.com/r/S533C32994AEN.html>

Price: US\$ 5,370.00 (Single User License / Electronic Delivery)

If you want to order Corporate License or Hard Copy, please, contact our Customer Service:

[info@marketpublishers.com](mailto:info@marketpublishers.com)

## Payment

To pay by Credit Card (Visa, MasterCard, American Express, PayPal), please, click button on product page <https://marketpublishers.com/r/S533C32994AEN.html>

To pay by Wire Transfer, please, fill in your contact details in the form below:

First name:  
Last name:  
Email:  
Company:  
Address:  
City:  
Zip code:  
Country:  
Tel:  
Fax:  
Your message:

**\*\*All fields are required**

Customer signature \_\_\_\_\_

Please, note that by ordering from marketpublishers.com you are agreeing to our Terms & Conditions at <https://marketpublishers.com/docs/terms.html>

To place an order via fax simply print this form, fill in the information below

and fax the completed form to +44 20 7900 3970